

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of: Bednarik, et al.

Attorney Docket No.: PF307

Patent No.: 6,974,682

Issued: December 13, 2005

Title: Soluble Interleukin-1 Receptor
Accessory Molecule

**REQUEST FOR CERTIFICATE OF CORRECTION
PURSUANT TO 37 C.F.R. § 1.323**

Attn: Certificate of Correction Branch

Commissioner for Patents
Washington, D.C. 20231

Sir:

Upon reviewing the above-identified patent, Patentees noted the following mistakes that should be corrected:

On The Cover:

- 1) Under the heading, Abstract, delete the entire paragraph and insert the following paragraph.

--The present invention relates to a novel soluble IL-1 receptor accessory molecule (IL-1R AcM) protein which is a member of the Ig superfamily. In particular, isolated nucleic acid molecules are provided encoding the human IL-1R AcM protein. IL-1R AcM polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. Screening methods are further provided for identifying agonists and antagonists of IL-1 signal transduction. The invention further relates to methods for treating physiologic and pathologic disease conditions with IL-1R AcM antagonists.--;

Support for this correction can be found in the abstract as originally filed on August 26, 1997. The two corrections accomplished by this change are:

- a) To correct missing period at end of 2nd sentence; and
- b) To correct typo singular "agonist" should have been plural "agonists"

Background Of The Invention

- 2) **Col. 1, line 40**, delete "IL-1 γ " and insert --IL-1 α --;

Support can be found in specification as originally filed on August 26, 1997 on page 2, line 1.

- 3) **Col. 1, line 41**, delete "IL-1R" and insert --IL-1ra--;

Support can be found in specification as originally filed on August 26, 1997 on page 2, line 2.

- 4) **Col. 1, line 54**, delete "the" and insert --three--;

Support can be found in specification as originally filed on August 26, 1997 on page 2, line 12.

- 5) **Col. 1, line 65**, delete "NF-kB" and insert --NF-κB--;

Support can be found in specification as originally filed on August 26, 1997 on page 2, line 21.

- 6) **Col. 2, line 32**, delete "are";

- 7) **Col. 2, line 34**, delete "three" and insert -- there--;

Support can be found in specification as originally filed on August 26, 1997 on page 3, line 18.

- 8) **Col. 2, line 50**, delete "muIL-R" and insert --muIL-1R--;

- 9) **Col. 2, line 54**, delete "mu1IL-1R" and insert --muIL-1R-- (both occurrences);

- 10) **Col. 2, line 59**, delete "mulIL-1R" and insert --muIL-1R--;

- 11) **Col. 3, line 35**, delete "Type I IL-1R The" and insert --Type I IL-1R. The--;

Support can be found in specification as originally filed on August 26, 1997 on page 5, line 7.

- 12) **Col. 3, line 36**, delete "muIL-1RAcP" and insert -- muIL-1R AcP--;

Support can be found in specification as originally filed on August 26, 1997 on page 5, line 7.

Summary Of The Invention

- 13) **Col. 3, line 43**, delete "FIG. 1" and insert --FIG. 1A--;

- 14) **Col. 3, line 47**, delete "FIG. 1" and insert --FIGS. 1A-B--;

- 15) **Col. 3, line 53**, delete "FIG. 1" and insert --FIGS. 1A-B--;

Brief Description of the Figures

- 16) **Col. 4, line 25**, “FIG. 1” and insert --FIGS. 1A-B--;
- 17) **Col. 4, line 30**, delete “FIG. 1” and insert --FIG. 1A--;
- 18) **Col. 4, lines 43-44**, delete “In the “Antigenic Index—Jameson-Wolf” graph (boxed graph), the” and insert --The--;
- 19) **Col. 4, line 46**, delete “aicds” and insert --acids--;
- 20) **Col. 4, lines 46-47**, delete “antigenic index” and insert --“Antigenic Index — Jameson-Wolf”--;

Under Detailed Description

- 21) **Col. 4, lines 50-63**, delete the entire paragraph and insert the following paragraph.

--The present invention provides isolated nucleic acid molecules comprising a polynucleotide encoding soluble IL-1R AcM polypeptide, having the amino acid sequence shown in FIG. 1A [SEQ ID NO:2], which was determined by sequencing a cloned cDNA. The soluble IL-1R AcM protein of the present invention shares sequence homology with mouse interleukin 1 receptor accessory protein (FIG. 2) [SEQ ID NO:3]. The nucleotide sequence shown in FIGS. 1A-B [SEQ ID NO:1] was obtained by sequencing the HMEEJ22 clone, which was deposited on Jul. 25, 1996 at the American Type Culture Collection, Patent Depository, 10801 University Boulevard, Manassas, VA 20110-2209, and given accession number 97666. The deposited clone is inserted in the pBluescript SK(-) plasmid (Stratagene, La Jolla, Calif.).--;

- 22) **Col. 5, line 27**, delete “FIG. 1” and insert --FIGS. 1A-B--;
- 23) **Col. 5, line 32**, delete “FIG. 1” and insert --FIGS. 1A-B--;
- 24) **Col. 5, line 35**, delete “FIG. 1” and insert --FIGS. 1A-B--;
- 25) **Col. 5, line 38**, delete “FIG. 1” and insert --FIGS. 1A-B--;
- 26) **Col. 5, line 43**, delete “FIG. 1” and insert --FIG. 1A--;
- 27) **Col. 5, line 45**, delete “FIG. 1” and insert --FIG. 1A--;
- 28) **Col. 5, line 46**, delete “FIG. 2A)” and insert --(FIG. 2A)--;
- 29) **Col. 5, line 48**, delete “FIG. 1” and insert --FIG. 1A--;
- 30) **Col. 5, line 64**, delete “species on” and insert --species of--;

- 31) **Col. 6, line 31**, delete “n(“PSORr)” and insert --(“PSORT”)--;

Support can be found in specification as originally filed on August 26, 1997 on page 10, line 11.

- 32) **Col. 6, line 41**, delete “of von Heinje. von Heinje, swra” and insert --of von Heinje. von Heinje, *supra*--;

Support can be found in specification as originally filed on August 26, 1997 on page 10, line 18.

- 33) **Col. 6, line 43**, delete “to about —1 in” and insert --to about -1 in--;

Support can be found in specification as originally filed on August 26, 1997 on page 10, line 20.

- 34) **Col. 7, line 4**, delete “in vivo or in vitro” and insert --*in vivo* or *in vitro*--;

Support can be found in specification as originally filed on August 26, 1997 on page 11, line 10.

- 35) **Col. 7, line 12**, delete “FIG. 1” and insert --FIGS. 1A-B--;

- 36) **Col. 7, line 14**, delete “FIG. 1” and insert --FIG. 1A--;

- 37) **Col. 7, line 18**, delete “L-IR” and insert --IL-1R--;

- 38) **Col. 7, line 37, after** “(SEQ ID NO:22).” Insert a new paragraph beginning with the sentence --In another aspect, the invention--;

- 39) **Col. 7, line 46**, delete “will encode” and insert --which encodes--;

- 40) **Col. 7, line 50**, delete “FIG. 1” and insert --FIGS. 1A-B--;

- 41) **Col. 7, line 55**, delete “in situ” and insert --*in situ*--;

- 42) **Col. 8, line 9**, delete “in tended” and insert --intended--;

Support can be found in specification as originally filed on August 26, 1997 on page 12, line 31.

- 43) **Col. 8, line 30**, delete “3070” and insert --30-70--;

Support can be found in specification as originally filed on August 26, 1997 on page 13, line 15.

- 44) **Col. 8, line 40**, delete "11R AcM" and insert --IL-1R AcM--;

Support can be found in specification as originally filed on August 26, 1997 on page 13, lines 22-23.

- 45) **Col. 8, line 42**, delete "resides" and insert --residues--;
- 46) **Col. 8, line 50**, delete "FIG. 1" and insert --FIGS. 1A-B--;
- 47) **Col. 8, line 62**, delete "FIG. 1" and insert --FIG. 1B--;
- 48) **Col. 8, line 63**, delete "resides" and insert --residues--;
- 49) **Col. 9, line 6**, delete "FIG. 1" and insert --FIG. 1A--;
- 50) **Col. 10, line 7**, delete "natal" and insert --natural--;

Support can be found in specification as originally filed on August 26, 1997 on page 16, line 7.

- 51) **Col. 10, line 27**, delete "FIG. 1" and insert --FIG. 1A--;
- 52) **Col. 11, line 4**, delete "FIG 1 or to the nucleotides" and insert --FIGS. 1A-B or to the nucleotide--;

Support for correction #54 can be found in Patentees' amendment under 37 C.F.R. §1.312 that was filed February 25, 2005. This amendment was entered by the Examiner (see Office communication dated October 17, 2005). However, it appears that the corrections to the specification were not actually made. The amendment filed February 25, 2005 changed "Figure 1" to read --Figures 1A-B--. The additional change of "nucleotides" to --nucleotide-- is to correct an obvious typographical error.

- 53) **Col. 11, line 9**, delete "53711" and insert --53711)--;
- 54) **Col. 11, lines 10-11**, delete "Advances in Applied Mathematics" and insert --*Advances in Applied Mathematics*--;
- 55) **Col. 11, line 11**, delete "482489" and insert --482-489--;
- 56) **Col. 11, line 17**, delete "fill" and insert --full--;
- 57) **Col. 11, line 23**, delete "FIG. 1" and insert --FIGS. 1A-B--;
- 58) **Col. 11, line 44**, delete "FIG. 1" and insert --FIGS. 1A-B--;

59) **Col. 11, line 56**, delete “an”;

60) **Col. 11, line 63**, delete “AcMare” and insert --AcM are--;

61) **Col. 11, line 66**, delete “CHO-dhfr” and insert --CHO-dhfr--;

Support can be found in specification as originally filed on August 26, 1997 on page 19, line 10.

62) **Col. 11, line 67**, delete “bovine serum 25 mM HEPES, pH 7.0, 0.1 mL” and insert --bovine serum, 25 mM HEPES, pH 7.0, 0.1 mM--;

Support for addition of the comma after serum can be found in specification as originally filed on August 26, 1997 on page 19, line 11. The correction of “mL” to --mM-- is to correct an obvious typographical error.

63) **Col. 12, line 1**, delete “1xHT” and insert --1X HT--;

Support can be found in specification as originally filed on August 26, 1997 on page 19, line 12.

64) **Col. 12, line 2**, delete “Bochringer” and insert --Boehringer--;

Support can be found in specification as originally filed on August 26, 1997 on page 19, line 13.

65) **Col. 12, line 3**, delete “1 X” and insert --1X--;

Support can be found in specification as originally filed on August 26, 1997 on page 19, line 13.

66) **Col. 12, line 14**, delete “251-labeled” and insert --¹²⁵I-labeled--;

Support can be found in specification as originally filed on August 26, 1997 on page 19, line 22.

67) **Col. 12, line 19**, delete “cells can performed” and insert --cells can be performed--;

68) **Col. 12, line 26**, delete “IL-1 β 0 to a CHO—IR/AcM” and insert --IL-1 β to a CHO-IR/AcM--;

Support can be found in specification as originally filed on August 26, 1997 on page 19, line 31.

- 69) **Col. 12, line 30**, delete "IL-1 will bind IL-1 P" and insert --IL-1R will bind IL-1 β --;

Support can be found throughout the specification as originally filed on August 26, 1997, particularly on page 20, line 3. The specification as filed has a typographical error and reads "IL-1". The patent as issued reads "IL-R". The patent should read "IL-1R".

- 70) **Col. 12, line 44**, delete "IL-1>" and insert --IL-1 β --;

Support can be found in specification as originally filed on August 26, 1997 on page 20, line 13.

- 71) **Col. 13, line 4**, delete "FIG. 1" and insert --FIGS. 1A-B--;

- 72) **Col. 13, line 59**, delete "plaids" and insert --plasmids--;

Support can be found in specification as originally filed on August 26, 1997 on page 22, line 13.

- 73) **Col. 14, line 19**, delete "*Spodoptera*" and insert --*Spodoptera*--;

Support can be found in specification as originally filed on August 26, 1997 on page 23, line 3.

- 74) **Col. 15, line 24**, delete "pat" and insert --part--;

- 75) **Col. 15, line 60-61**, delete "FIG. 1" and insert --FIG. 1A--;

- 76) **Col. 15, line 65**, delete "least to" and insert --least two--;

- 77) **Col. 16, line 25**, delete "IL1R" and insert -- IL-1R--;

Support can be found in specification as originally filed on August 26, 1997 on page 26, line 9.

- 78) **Col. 17, line 55**, delete "Le., the mature" and insert --i.e., the mature--;

Support can be found in specification as originally filed on August 26, 1997 on page 29, line 10.

- 79) **Col. 17, line 62**, delete "97/o" and insert 97%--;

Support can be found in specification as originally filed on August 26, 1997 on page 29, line 15.

- 80) **Col. 18, line 20**, delete "96%", second occurrence;

81) **Col. 18, line 20**, delete "990%" and insert --99%--;

82) **Col. 18, line 22**, delete "FIG. 1" and insert --FIG. 1A--;

83) **Col. 20, line 16**, delete "Type IL-1R" and insert --Type I IL-1R--;

Support can be found in specification as originally filed on August 26, 1997 on page 33, line 9.

84) **Col. 20, line 21**, delete "with the IL-R" and insert --with the IL-1R--;

Support can be found in specification as originally filed on August 26, 1997 on page 33, line 13.

85) **Col. 20, line 26**, delete "to";

86) **Col. 20, line 27**, delete "to";

87) **Col. 20, line 43**, delete "comples" and insert --complex--;

88) **Col. 20, line 60**, delete "IL-1 P." and insert --IL-1 β --;

Support can be found in specification as originally filed on August 26, 1997 on page 34, line 13.

89) **Col. 20, line 65**, delete "IL" and insert --IL-1--;

Support can be found in specification as originally filed on August 26, 1997 on page 34, line 17.

90) **Col. 20, line 67**, delete "IL-1R" and insert --IL-1ra--;

Support can be found in specification as originally filed on August 26, 1997 on page 34, line 18.

91) **Col. 21, line 15**, delete "immuno precipitating" and insert --immunoprecipitating--;

Support can be found in specification as originally filed on August 26, 1997 on page 34, line 29.

92) **Col. 21, line 19**, delete "IL-1 P" and insert --IL-1 β --;

Support can be found in specification as originally filed on August 26, 1997 on page 35, line 1.

- 93) **Col. 22, line 3**, delete “ences” and insert --enhances--;

Support can be found in specification as originally filed on August 26, 1997 on page 36, line 10.

- 94) **Col. 22, line 23**, delete “act” and insert --fact--;

Support can be found in specification as originally filed on August 26, 1997 on page 36, line 25.

- 95) **Col. 22, line 29**, delete “to animal” and insert --to an animal--;

Support can be found in specification as originally filed on August 26, 1997 on page 37, line 1.

- 96) **Col. 23, line 1**, delete “101 μ l” and insert --10 μ g/l--;

Support can be found in specification as originally filed on August 26, 1997 on page 37, line 30.

- 97) **Col. 23, line 44**, delete “humsnized” and insert --humanized--;

Support can be found in specification as originally filed on August 26, 1997 on page 39, line 2.

- 98) **Col. 23, line 66**, delete “ ^{131}I ” and insert -- ^{131}I --;

Support can be found in specification as originally filed on August 26, 1997 on page 39, line 18.

- 99) **Col. 32, line 67**, delete “ ^{47}Sc ” and insert -- ^{47}Sc --;

Support can be found in specification as originally filed on August 26, 1997 on page 39, line 19.

- 100) **Col. 24, line 13**, delete “ ^{55}Mn ” and insert -- ^{55}Mn --;

Support can be found in specification as originally filed on August 26, 1997 on page 39, line 29.

- 101) **Col. 25, line 41**, delete “regulation liver” and insert --regulation of liver--;

- 102) **Col. 25, line 48**, delete “hat” and insert --that--;

- 103) **Col. 26, line 43**, delete "IL 1" and insert --IL-1--;

Support can be found in specification as originally filed on August 26, 1997 on page 44, line 13.

- 104) **Col. 26, line 45**, delete "IL1" and insert --IL-1--;

Support can be found in specification as originally filed on August 26, 1997 on page 44, line 15.

- 105) **Col. 28, line 1**, delete "appear" and insert --appears--;

- 106) **Col. 28, line 8**, delete " 10^9M^{-1} , more preferably" and insert -- 10^8M^{-1} , more preferably--;

Support can be found in specification as originally filed on August 26, 1997 on page 46, line 31.

- 107) **Col. 28, line 34**, delete "GGATCCATGACACTTCTGTGGTGTG" and insert --GGATCCATGACACTTCTGTGGTGTG--;

- 108) **Col. 28, line 38**, delete "FIG. 1" and insert --FIGS. 1A-B--;

- 109) **Col. 28, lines 39-40**, delete "GTCACTGACCGCATCT" and insert --GTCGACTCACTGACCGCATCT--;

- 110) **Col. 28, line 43**, delete "FIG. 1" and insert --FIGS. 1A-B--;

- 111) **Col. 28, line 64**, delete "resisce" and insert --resistance--;

Support can be found in specification as originally filed on August 26, 1997 on page 48, line 17.

- 112) **Col. 29, line 49**, delete "Retrovinises" and insert --Retroviruses--;

Support can be found in specification as originally filed on August 26, 1997 on page 49, line 26.

- 113) **Col. 29, line 57**, delete "cell's" and insert --cells--;

Support can be found in specification as originally filed on August 26, 1997 on page 50, line 5.

- 114) **Col. 29, line 58**, delete "NIH3" and insert --NIH3T3--;

Support can be found in specification as originally filed on August 26, 1997 on page 50, line 5.

- 115) Col. 30, lines 60-61, delete

“GGATCCATCCGCCATCATGACACTTCTGTGGTGTG” and insert --
GGATCCATCCGCCATCATGACACTTCTGTGGTGTG--;

Support can be found in specification as originally filed on August 26, 1997 on page 52, lines 1-2.

- 116) Col. 30, lines 66-67, delete

“TCTAGAGCGTAGTCTGGGACGTCGTATGGGTACTGACCGCATCT” and
insert
--TCTAGAAAAGCGTAGTCTGGGACGTCGTATGGGTACTGACCGCATCT--;

Support can be found in specification as originally filed on August 26, 1997 on page 52, lines 6-7.

- 117) Col. 31, line 4, delete “Stratagehe” and insert --Stratagene--;

Support can be found in specification as originally filed on August 26, 1997 on page 52, line 10.

- 118) Col. 31, line 24, delete “135 cysteine” and insert --³⁵S-cysteine--;

Support can be found in specification as originally filed on August 26, 1997 on page 52, lines 25-26.

- 119) Col. 31, line 24, delete “washed and the” and insert --washed and then--;

- 120) Col. 32, line 7, delete “B-actin” and insert --β-actin--;

Support can be found in specification as originally filed on August 26, 1997 on page 54, line 3.

- 121) Col. 32, line 19, delete “phosphates” and insert --phosphatase--;

This is an obvious typographical error to one skilled in the art. Dephosphorylation by treatment with Calf Intestinal Phosphatase (CIP) is a routine molecular biology protocol.

- 122) Col. 32, lines 24-25, delete

“GACTGGATCCGCCATCATGACACTTCTGTGGTGTG” and insert
--GACTGGATCCGCCATCATGACACTTCTGTGGTGTG--;

- 123) Col. 32, lines 27-28, delete “FIG. 1” and insert --FIGS. 1A-B--;

- 124) Col. 32, line 35, delete “GAATTCCTCACTGACCGCATCT” and insert
--GAATTCCTCACTGACCGCATCT--;

125) Col. 32, line 39, delete "FIG. 1" and insert --FIGS. 1A-B--;

126) Col. 32, line 52, delete "transfection 5 μ g" and insert --transfection. 5 μ g--;

Support can be found in specification as originally filed on August 26, 1997 on page 55, line 11.

127) Col. 32, line 68, delete "mM" and insert -- μ M--;

This is an obvious typographical error to one skilled in the art. Support can be found in specification as originally filed on August 26, 1997 on page 55, line 23. Line 23 states that the concentration is increased until "clones grow at a concentration of 100 μ M. "10 mM" and "20 mM" should read --10 μ M-- and --20 μ M-- in order to be under the maximum concentration of 100 μ M.

128) Col. 33, line 1, delete "mM" and insert -- μ M--;

This is an obvious typographical error to one skilled in the art. Support can be found in specification as originally filed on August 26, 1997 on page 55, line 23. Line 23 states that the concentration is increased until "clones grow at a concentration of 100 μ M. "10 mM" and "20 mM" should read --10 μ M-- and --20 μ M-- to be under the maximum of 100 μ M.

129) Col. 33, lines 13-14, delete "GAGATCCATATGACACTTCTGTGGTGTG" and insert --GACTGGATCCGCCATCATGACACTTCTGTGGTGTG--;

130) Col. 33, lines 17-18, delete "FIG 1. (SEQ ID) NO: 1" and insert --FIGS. 1A-B (SEQ ID NO:1)--;

131) Col. 33, lines 22-23, delete "J. Mol. Biol." and insert --*J. Mol. Biol.*--;

132) Col. 33, line 24, delete "of the construct For" and insert --of the construct. For--;

133) Col. 33, line 24, begin new paragraph with "For the full";

134) Col. 33, line 25, delete "fill" and insert --full--;

135) Col. 33, line 26, delete "GAC TGG TAC CCA TAG AAA TCA TGT GTA TAC C₃'" and insert --GAC TGG TAC CCA TAG AAA TCA TGT GTA TAC C 3'--;

136) Col. 33, line 30, delete "FIG. 1" and insert --FIGS. 1A-B--;

137) Col. 33, line 33, delete "figment" and insert --fragment--;

Support can be found in specification as originally filed on August 26, 1997 on page 56, line 23.

- 138) **Col. 33, line 65**, delete "BO 1101" and insert --BIO 101--;

Support can be found in specification as originally filed on August 26, 1997 on page 57, line 16.

- 139) **Col. 34, line 63**, delete "MCi" and insert -- μ Ci--;

- 140) **Col. 35, line 9**, delete " ^{33}P " and insert -- ^{32}P --;

Support can be found in specification as originally filed on August 26, 1997 on page 59, line 10.

- 141) **Col. 35, line 11**, delete "manufactur's" and insert --manufacturer's--;

Support can be found in specification as originally filed on August 26, 1997 on page 59, line 11.

- 142) **Col. 35, line 14**, delete "manufacturers" and insert -- manufacturer's--;

Support can be found in specification as originally filed on August 26, 1997 on page 59, line 13.

Under What is claimed is:

Support for all claim corrections can be found in Patentees' Reply under 37 C.F.R. §1.111 filed on April 5, 2004.

- 143) **Claim 1, line 3**, delete "acids—17" and insert --acids -17--;

See claim 20 as filed on April 5, 2004.

- 144) **Claim 1, line 5**, delete "acids—16" and insert --acids -16--;

See claim 20 as filed on April 5, 2004.

- 145) **Claim 1, line 16**, delete "97666: and" and insert --97666; and--;

See claim 20 as filed on April 5, 2004.

- 146) **Claim 5, line 1**, delete "claim 1," and insert --claim 4,--;

See claim 24 as filed on April 5, 2004. Claim 24 (current claim 5) depends from claim 23 (current claim 4) not from claim 20 (current claim 1).

- 147) **Claim 13, line 3**, delete "acids—17" and insert --acids -17--;

See claim 49 as filed on April 5, 2004.

- 148) **Claim 13, lines 5-6**, delete "acids—16 to 339 of SEQ 1) NO:2," and insert --acids -16 to 339 of SEQ ID NO:2;--;

See claim 49 as filed on April 5, 2004.

- 149) **Claim 32, line 2**, delete "claim operatively" and insert --claim 1 operatively--; and

See claim 69 as filed on April 5, 2004. Claim 69 (current claim 32) depends from claim 20 (current claim 1).

- 150) **Claim 36, line 1**, delete "comprises the" and insert --comprises culturing the--.

See claim 73 as filed on April 5, 2004.

The above numbered corrections: 6, 8, 9, 10, 30, 39, 45, 48, 53, 59, 60, 67, 74, 76, 85-87, 101, 102, 105, 119, and 139 are obvious typographical errors made by the Patentees.

Support for the above numbered corrections: 13-29, 35-38, 40, 41, 46, 47, 49, 51,

54-58, 71, 75, 80-82, 107-110, 122-125, and 129-136 can be found in Patentees' amendment under 37 C.F.R. §1.312 that was filed February 25, 2005. This amendment was entered by the Examiner (see Office communication dated October 17, 2005). However, it appears that the corrections to the specification were not actually made.

Some of the above mistakes appear to be in the application as filed or amended by Patentees. Accordingly, it is hereby requested that a Certificate of Correction under 37 C.F.R. § 1.323 be issued for the above-identified patent.

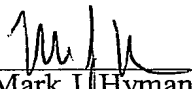
Patentees submit that the above mistakes occurred in good faith, and are either of a clerical or typographical nature, or of minor character. Patentees further submit that the requested corrections neither constitute new matter nor require reexamination.

Patentees hereby authorize the Commissioner to charge the required fee of \$100.00, and any other fee deemed necessary, to Deposit Account No. 08-3425, as itemized on the enclosed Fee Transmittal Sheet.

Submitted herewith are (a) a proposed Certificate of Correction (Form PTO/SB/44); and (b) a Fee Transmittal Sheet with appropriate fee (in duplicate). Patentees respectfully request the issuance of the Certificate of Correction.

Respectfully submitted,

Dated: 5/9/2006



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